WEST Search History

DATE: Wednesday, April 17, 2002

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=AND			
L9	l2 and tmax	2	L9
L8	l5 and tmax	2	L8
L7	l5 and cmax	2	L7
L6	(metformin) same (sustained adj release)	5	L6
L5	(metformin) same (controlled adj release)	26	L5
L4	(metformin) same (extended adj release)	3	L4
L3	(metformin same phase)	7	L3
L2	(metformin same granul$)	16	L2
L1	metformin same biphasic	2	L1

END OF SEARCH HISTORY

1999:760291 CAPLUS
DN 132:83528
TI Development and biopharmaceutical evaluation of controlled release tablets
of **metformin** hydrochloride using a **dissolution** medium with gradual pH variation
AU De Pinho, Jose De Jesus R. G.; Storpirtis, Silvia
CS Laboratorio de Technologia Farmaceutica e de Cosmeticos, Faculdade de Farmacia e Bioquimica, Universidade Federal de Juiz de Fora, Cid. Universitaria, SP, 05389-970, Brazil
SO Rev. Bras. Cienc. Farm. (1999), 35(1), 101-109
CODEN: RBCFFM; ISSN: 1516-9332
PB Universidade de Sao Paulo, Faculdade de Ciencias Farmaceuticas
DT Journal
LA Portuguese
RE.CNT

Four formulations of controlled-release tablets contg. 850 mg **metformin** HCl were prepd. using different amts. of **hydroxypropylmethylcellulose** and stearic acid adjuvants along with std. amts. of other excipients. The prepns. were submitted to dissoln. assays using 6 vessels with paddle app. (1000 mL deaerated distd. water or aq. soln. with gradual pH variation from 1.3 to 7.5; 100 rpm; 37.0.+-.0.5.degree.C; 10 mL aliquots withdrawn at 10, 30, 60, 90, 120, 180, 240, 300, and 360 min). The drug was quantified by UV spectrophotometry at 233 nm. The results showed that the drug release was affected by the tablet adjuvants, but not by pH variations.

L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS
AN 1997:128753 CAPLUS
DN 126:229547
TI Use of cellulose ether containing excipients with microcrystalline cellulose for the production of pellets containing **metformin** hydrochloride by the process of extrusion-spheronization
AU Gouldson, M. P.; Deasy, P. B.
CS Dep. Pharmaceutics, Trinity Coll. Univ. Dublin, Dublin, 4, Ire.
SO J. Microencapsulation (1997), 14(2), 137-153
CODEN: JOMIEF; ISSN: 0265-2048
PB Taylor & Francis
DT Journal
LA English

The project is concerned mainly with the evaluation of 2 cellulose ether contg. excipients, Aquacoat WG and Avicel 955 MCC for the improved extrusion-spheronization of **metformin**-HCl. Factorially designed expts. subject to statistical analyses were employed and products obtained were evaluated by sieve, packing d. and image anal., SEM and dissoln. testing at pH 6.cntdot.8. Aquacoat WG did not improve the ease of spheronization of drug mixes contg. microcryst. cellulose wetted with the optimum level of water. However, Avicel 955 MCC, a new exptl. excipient contg. 95% microcryst. cellulose and 5% Me cellulose, did aid ease of spheronization facilitating acceptable yield of good spheres with high drug loadings (70%). Avicel 955 MCC-contg. drug mixes were more tolerant to minor alterations in level of hydration and yielded spheres which showed a small retardation of drug release despite the very high soly. of **metformin**-HCl.